### CRAWFORD MAUNU PLLC

### **United States Patent Application**

# **DECLARATION UNDER 37 C.F.R. § 1.63**

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: METHOD AND APPARATUS FOR ENHANCING THERMAL STABILITY, IMPROVING BIASING AND REDUCING DAMAGE FROM ELECTROSTATIC DISCHARGE IN SELF-PINNED ABUTTED JUNCTION HEADS HAVING A FIRST SELF-PINNED LAYER EXTENDING UNDER HARD BIAS LAYERS.

The specification of which			•	
a. ais attached hereto				
b. X is entitled METHOD AN	D APPARATUS FOR ENHAN	ICING THERMAL STABIL	ITY, IMPROVING BIASING AND	
REDUCING DAMAGE FROM	M ELECTROSTATIC DISCHA	ARGE IN SELF-PINNED AI	BUTTED JUNCTION HEADS HAVIN	G
A FIRST SELF-PINNED LAY	ER EXTENDING UNDER HA	ARD BIAS LAYERS, having	attorney docket number HSJ920030016U	JS2
(HITG.054PA).				
c. was filed on	as application serial no.	and was amended on	(if applicable) (in the case of a PCT-f	
application) described and claim solicit a United States patent.	ed in international no. filed	and as amended on (if a	ny), which I have reviewed and for whic	h I
I hereby state that I have reviewed any amendment referred to above		f the above-identified specifica	tion, including the claims, as amended by	,
I acknowledge the duty to disclo Federal Regulations, § 1.56 (atta		to the patentability of this appl	ication in accordance with Title 37, Cod	e of
	also identified below any foreign sis of which priority is claimed: been filed.		reign application(s) for patent or inventor ntor's certificate having a filing date befo	
FC	OREIGN APPLICATION(S), IF ANY,	CLAIMING PRIORITY UNDER 3	5 USC § 119	
COUNTRY	APPLICATION NUMBER	DATE OF FILING	DATE OF ISSUE	
		(day, month, year)	(day, month, year)	A
				1
ALL FO	REIGN APPLICATION(S), IF ANY, I	FILED BEFORE THE PRIORITY	APPLICATION(S)	
COUNTRY	APPLICATION NUMBER	DATE OF FILING	DATE OF ISSUE	l
		(day, month, year)	(day, month, year)	il
				ı
I hereby claim the benefit under	Title 35, United States Code, § 1	20/365 of any United States at	nd PCT international application(s) listed	l
,			in the prior United States application in	
manner provided by the first par	agraph of Title 35, United States	Code, § 112, I acknowledge th	ne duty to disclose material information a	iS

defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. APPLICATION NUMBER

DATE OF FILING (day, month, year)

STATUS (patented, pending, abandoned)

U.S. APPLICATION NUMBER	DATE OF FILING (day, month, year)	STATUS (patented, pending, abandoned)

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

U.S. PROVISIONAL APPLICATION NUMBER	DATE OF FILING (Day, Month, Year)			

I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

Funk, Steven R.	Reg. No. 37,830	Crawford, Robert J	. Reg. No. 32,122	Maunu, LeRoy D. Reg	g. No. 35,274
Hollingsworth, Mark A.	Reg. No. 38,491	Curtin, Eric J.	Reg. No. 47,511	Davis, Clara	Reg. No.
50,495					
Lynch, David W.	Reg. No. 36,204	Douglas R. Millett	Reg. No. 31,784	Thomas R. Berthold Reg	g. No. 28,689
Ronald B. Feece	Reg. No. 46,327	Robert B. Martin	Reg. No. 26,945	Lewis L. Nunnelley Re	g. No. 42,942
Patrick W. Duncan	Reg. No. 41,721				

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/ organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Crawford Maunu PLLC.

Please direct all correspondence in this case to Crawford Maunu PLLC at the address indicated below:

## Crawford Maunu PLLC

1270 Northland Drive Suite 390 St. Paul, MN 55120

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

	Full Name	Family Name	First Given Name		Second Given Name
2	Of Inventor	GILL	HARDAYAL		SINGH
0	Residence	City	State or Foreign Country		Country of Citizenship
	& Citizenship	PALO ALTO	CALIFORNIA		U.S.A.
1	Post Office	Post Office Address	City		State & Zip Code/Country
	Address	545 LYTTON AVE.	PALO ALTO		CA/94301/USA
Sign	ature of Inventor 2	01:		Date:	
	Full Name	Family Name	First Given Name		Second Given Name
2	Of Inventor	HSIAO	WEN-CHIEN		
0	Residence	City	State or Foreign Country		Country of Citizenship
	& Citizenship	SAN JOSE	CALIFORNIA		U.S.A.
1	Post Office	Post Office Address	City		State & Zip Code/Country
	Address	1338 QUAIL CREEK CIRCLE	SAN JOSE		CA/95120/USA
Signature of Inventor 202:			Date:		
	Full Name	Family Name	First Given Name		Second Given Name
2	Of Inventor	LUO	JIH-SHIUAN		
0	Residence	City	State or Foreign Country		Country of Citizenship
	& Citizenship	SAN JOSE	CALIFORNIA		U.S.A.
1	Post Office	Post Office Address	City		State & Zip Code/Country
	Address	6164 GLIDER DRIVE	SAN JOSE		CA/95123/USA
Sign	Signature of Inventor 203: Date:				
10100	0020014HE2 (HITC				

### § 1.56 Duty to disclose information material to patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
  - (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
  - (2) It refutes, or is inconsistent with, a position the applicant takes in:
  - (i) Opposing an argument of unpatentability relied on by the Office, or
  - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
- (1) Each inventor named in the application:
- (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.